



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54016

Entry Year 2021

Acreage: 1,915

County Montmorency

Management Area: Avery Hills

Revision Date: 2019-08-06

Stand Examiner: Darrick Coy

Legal Description:

T29N, R03E, Sections 19, 20, 29, and 30

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan. Harvests prescribed will help to balance the age classes of aspen and other deciduous covertypes to sustainably produce various timber products, enhance game and non-game wildlife habitat and provide for forest-based recreational uses.

Soil and topography:

Soils are primarily well drained sands. The topography is mostly rolling with some minor areas of extreme slope or flat terrain. Covertypes are predominately aspen, oak, northern hardwood, and lowland conifer. Forest habitat types are primarily dominated by AFO, PARVvb, PArVHa, and unclassified lowland.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The compartment has some private parcels along the edge. The compartment has recreational use by ORVs & snowmobiles and receives a large amount of use by Antrim Gas Companies.

Unique Natural Features:

Rare and endanger species present. Contact Michigan Natural Features Inventory for more information or reporting.

Archeological, Historical, and Cultural Features:

No known sites exist. Contact the State Historical Preservation Office for more information or reporting of new sites.

Special Management Designations or Considerations:

Begin to introduce planted pine into areas of medium to high site quality where natural regeneration efforts have failed to sufficiently restock stands with more desirable northern hardwood regeneration.

Watershed and Fisheries Considerations:

Hunt Creek flows through the compartment and along many stands; it is a designated trout stream (and Blue Ribbon status) with strong stocks of wild trout and high groundwater accrual; minimum buffer width of 300 feet recommended.

Wildlife Habitat Considerations:

This compartment is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of heavy aspen and oak provide food and cover for multiple species at a variety of age classes. We are working to maintain oak and other mast producing trees as well as keep a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel operations are located 2.5 miles to the east and west, and sand & gravel potential appears to be good within the compartment. This area is leased and has been developed for the Antrim Shale. There is little space for additional future wells, and there is no known potential for production from other formations beneath the compartment. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

This compartment is accessed from several County Roads: Co Rd 612, Hunt Creek Rd, Johnson Pond Rd, and Blue Lakes Rd. There are several two tracks for traversing the area.

Survey Needs:

None known.

Recreational Facilities and Opportunities:

There are many opportunities for hunting, fishing and wildlife viewing in the area. The north end of Hunt Creek ORV (motorcycle only) trail is contained within sections 29 and 30 of the compartment.

Fire Protection:

Fire response to the compartment will be covered by the Atlanta DNR office as well as the Tri-Township Fire Department.

Additional Compartment Information:

The following reports from the Inventory are attached:

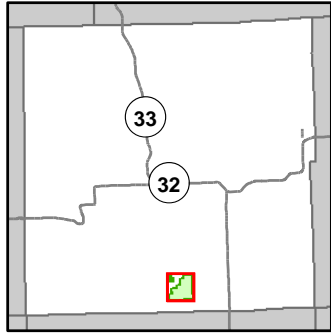
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

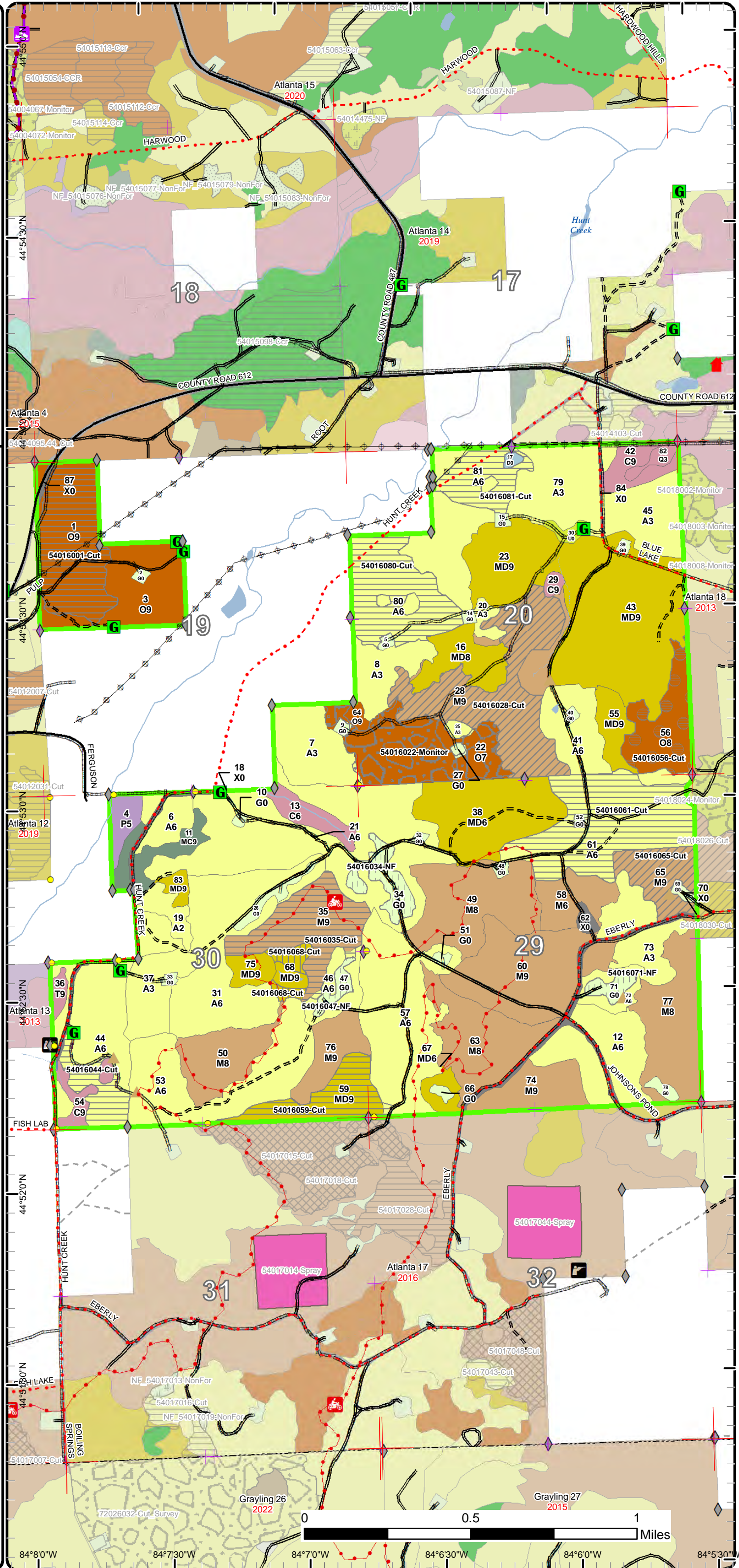
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 16
 T29N, R03E, Sec. 19, 20, 29, 30
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Avery Hills
 YOE: 2021
 Acres: 1,915 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 10/10/2019
 Map Phase: Post-Review

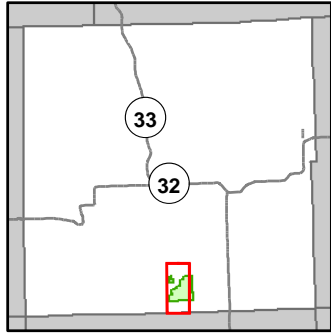


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Drain
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- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Deer Blind
- Berms
- Gate
- Culvert
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes

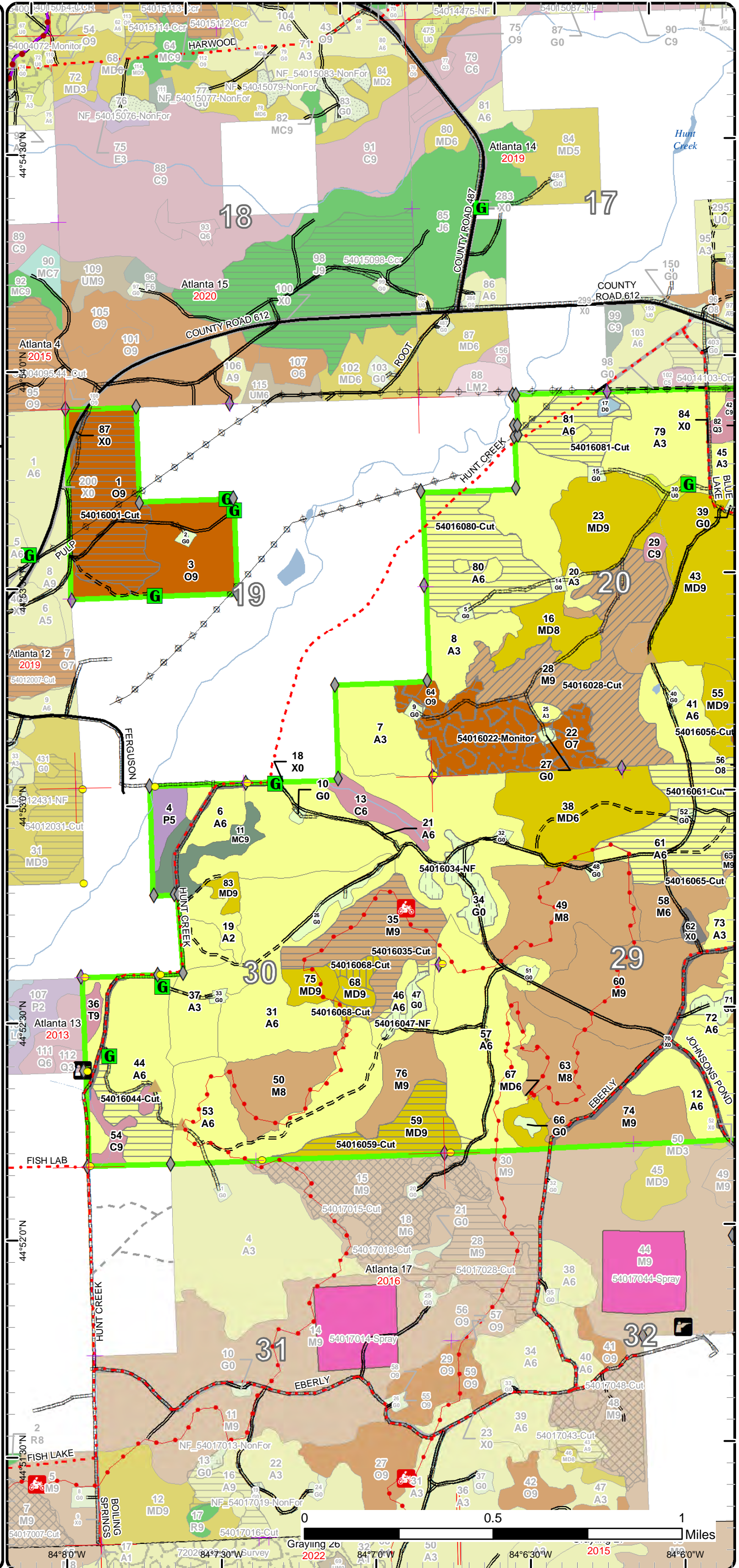


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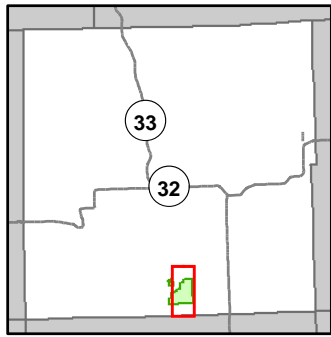


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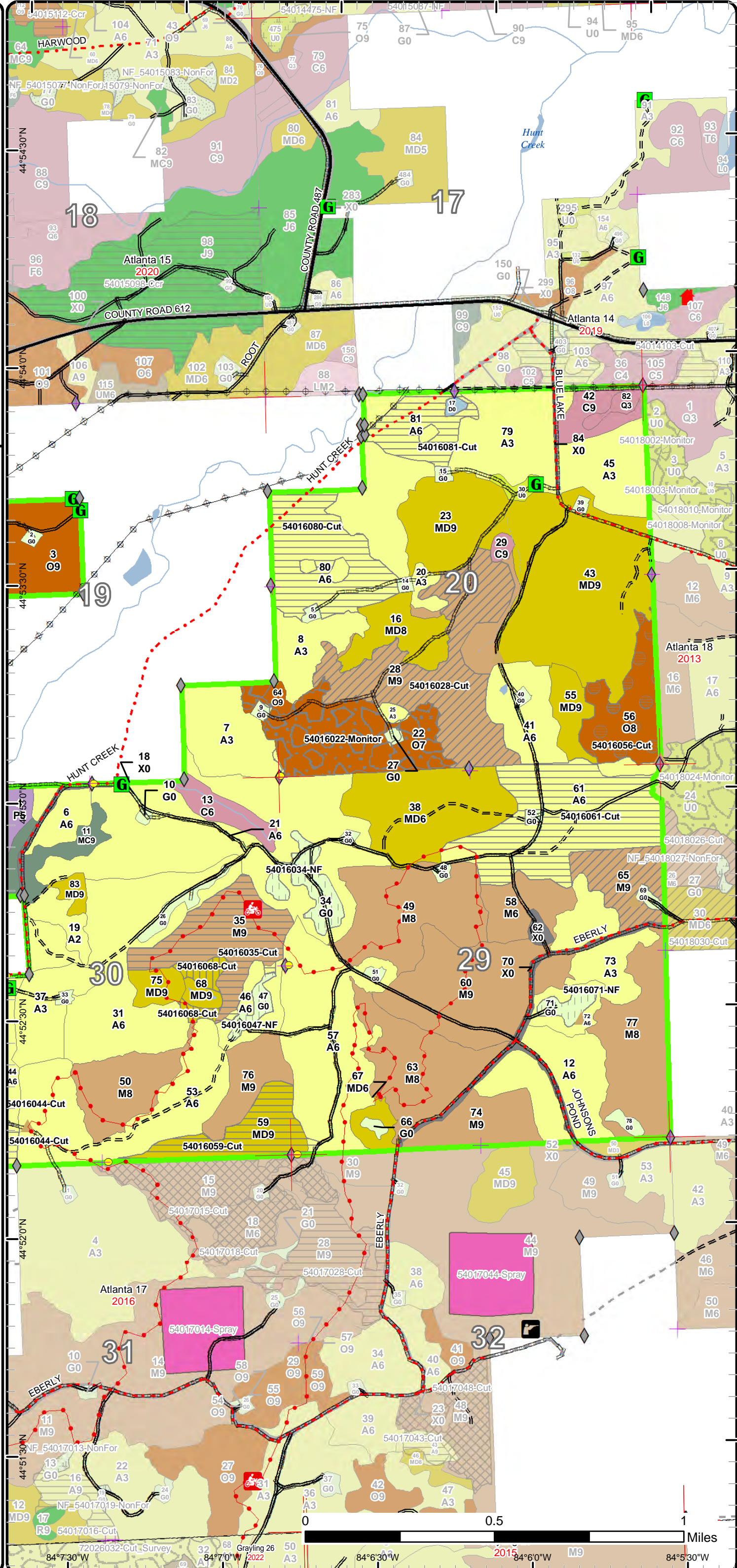


Cover Type & Treatments Map

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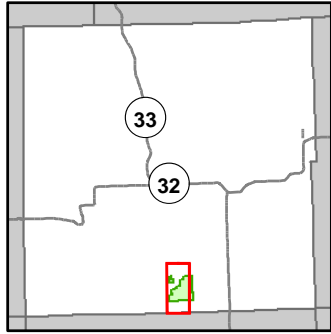


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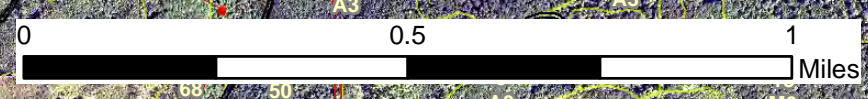
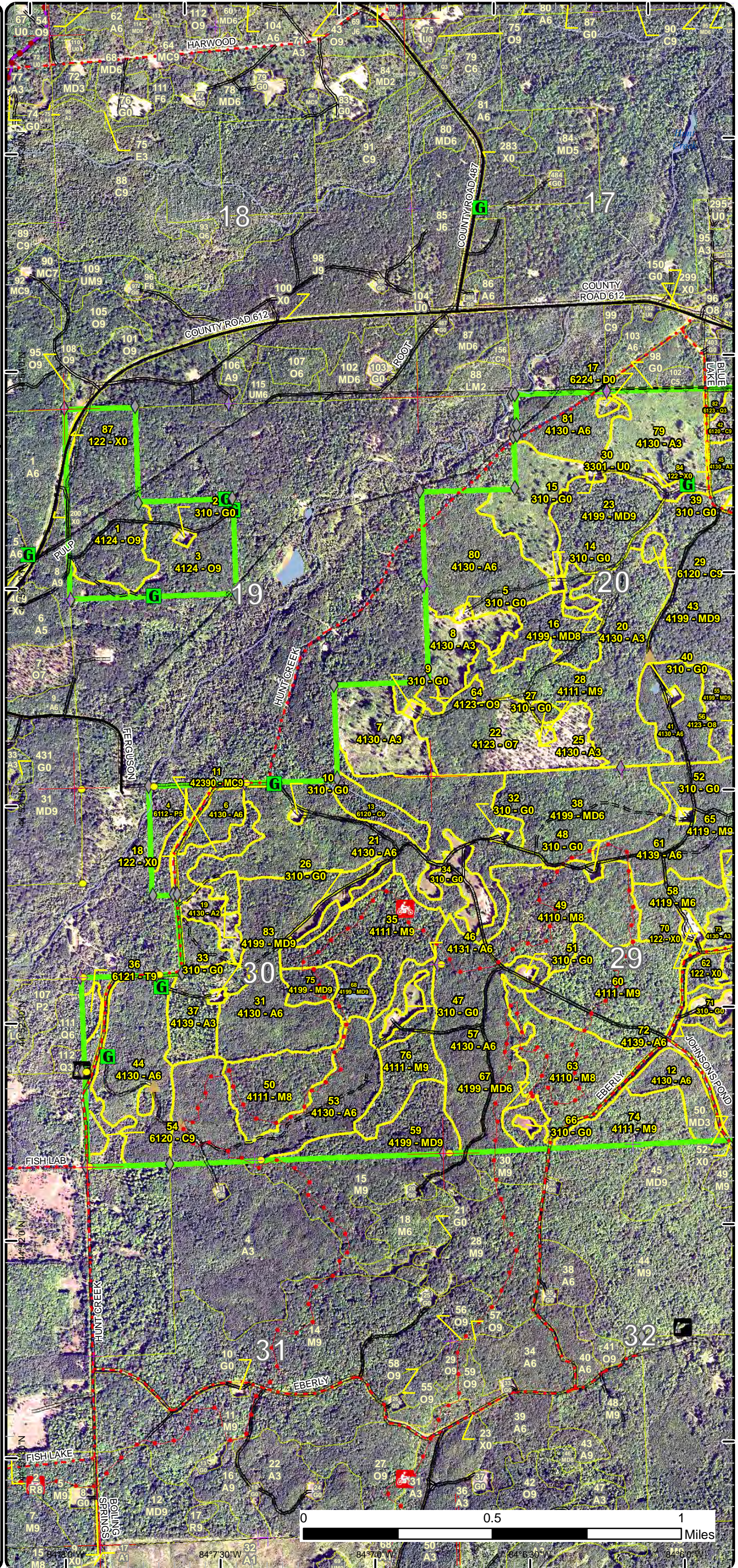


Stand Boundary Map

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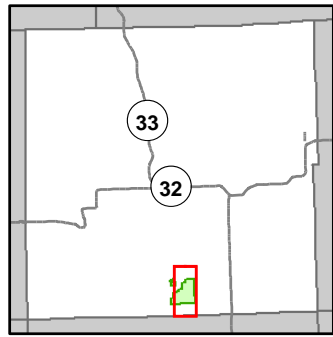
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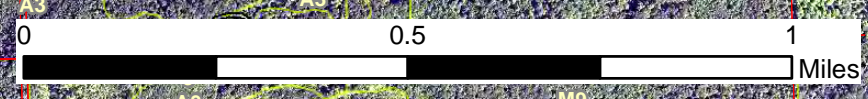
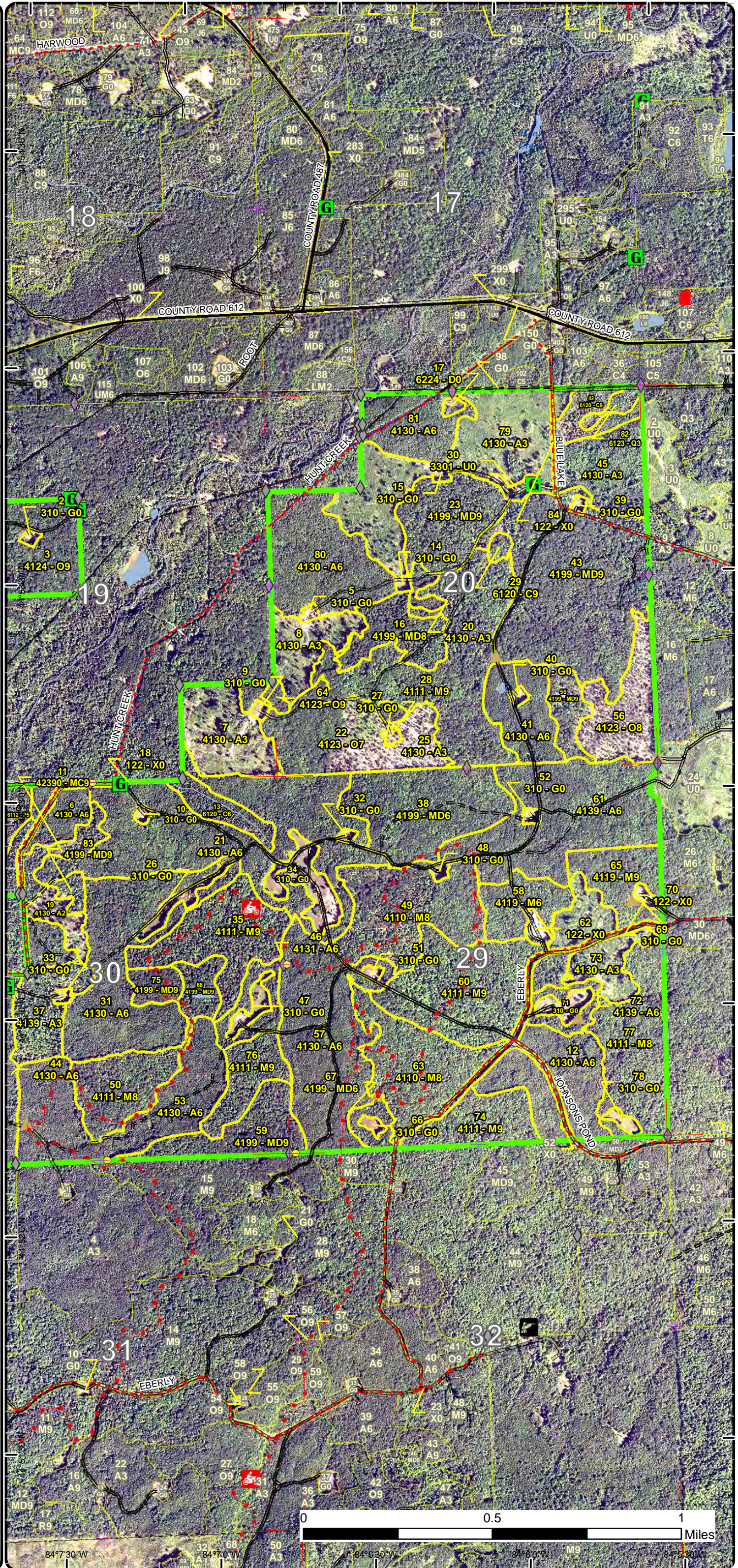
84° 30' W 32 A1 84° 30' W 50 A3 84° 30' W 64° 30' W 84° 30' W

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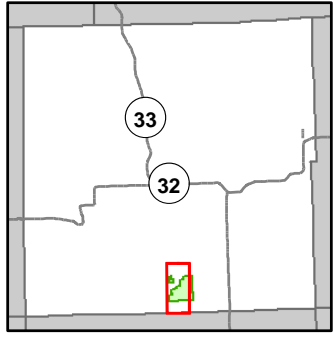
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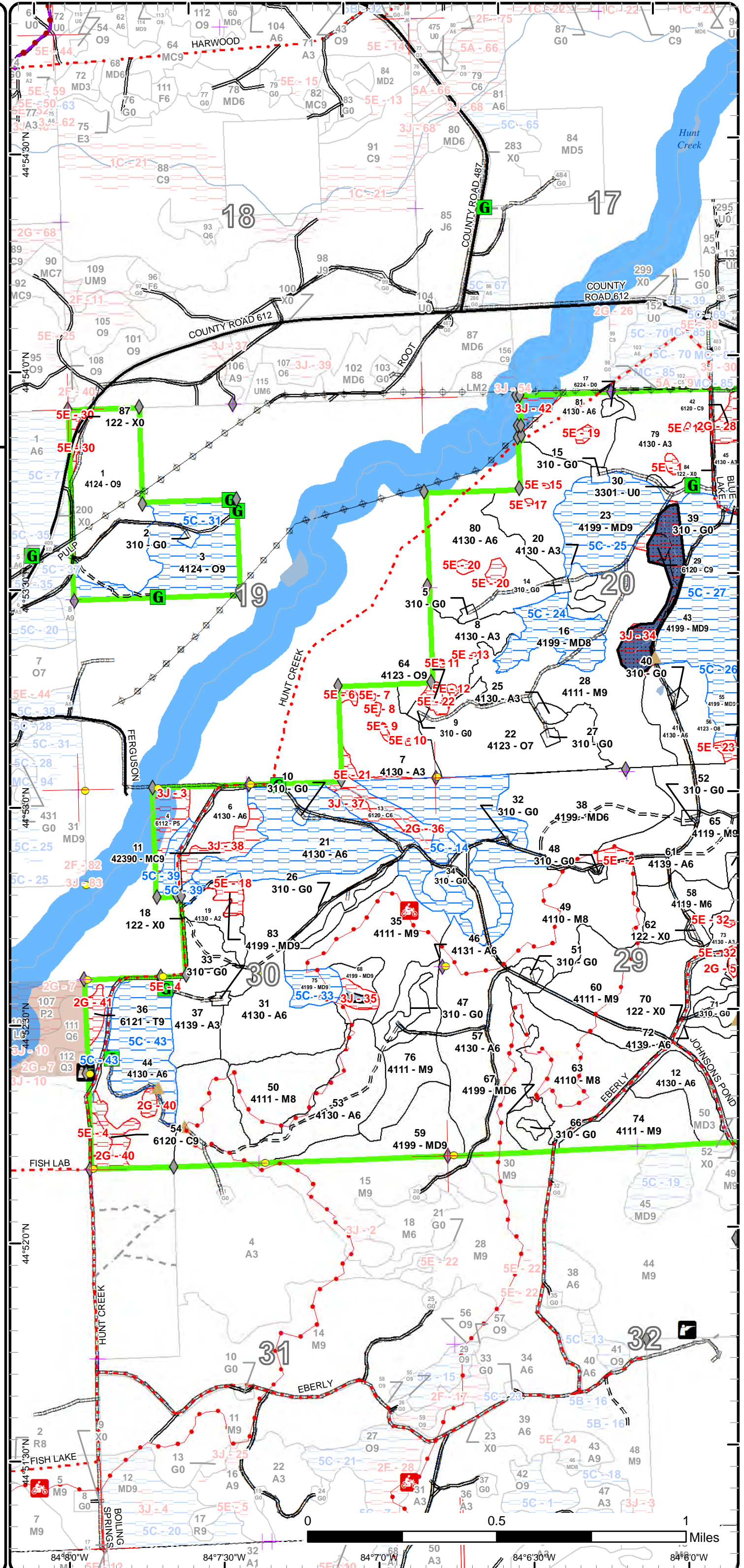
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Special Conservation Areas & Site Conditions Map

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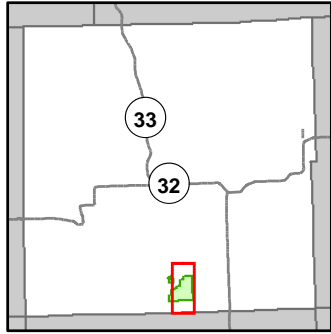


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- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
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- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Spring or Seep
- Vernal Pool

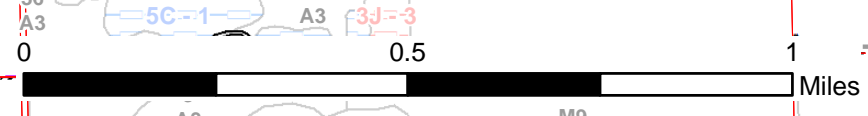
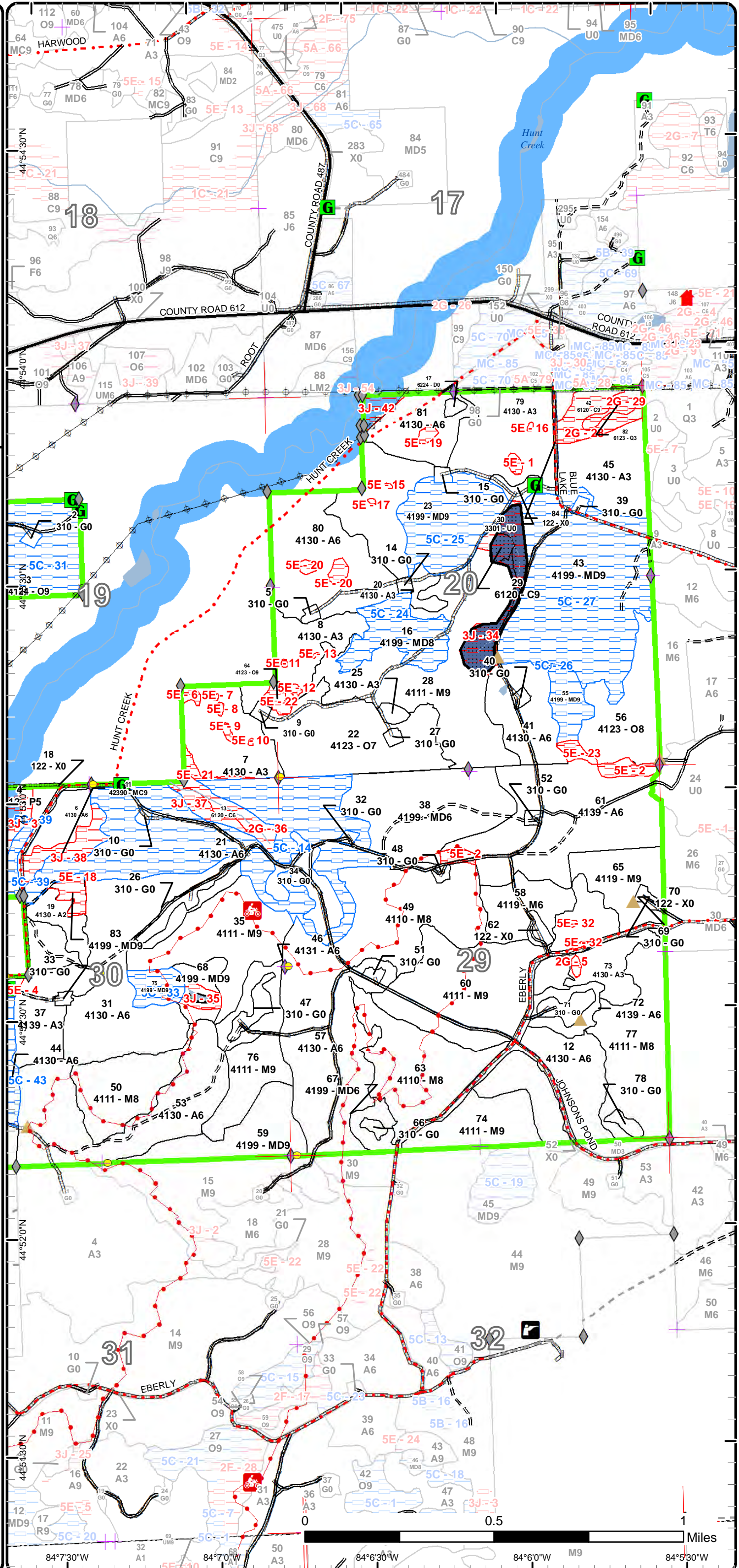


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	159	52	197	124	247	78	0	0	0	0	0	0	0	0	0	0	0	857
Cedar	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	35
Herbaceous Openland	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	0	0	60	0	0	0	49	69	107	0	0	0	0	0	0	284
Northern Hardwood	0	0	0	0	0	19	0	0	0	153	272	0	0	0	0	0	0	0	444
Oak	0	0	0	0	0	0	0	0	0	0	185	0	0	0	0	0	0	0	185
Tamarack	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Treed Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	15
Urban	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Total	78	159	52	197	128	326	78	9	0	202	526	161	0	0	0	0	0	0	1915



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 16

Total Compartment Acres: 1,915

Commercial Harvest - 416
 Harvests with Site Condition - 0
 Next Step Harvest - 52
 Habitat Cut - 52

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	159	0	0	0	0	0	0	0	0	159
Mixed Upland Deciduous	28	0	0	0	7	0	0	0	0	34
Northern Hardwood	43	0	0	0	0	94	0	0	0	137
Oak	54	0	31	0	0	0	0	0	0	85
Total	284	0	31	0	7	94	0	0	0	416

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	416	0	0	0	0	0	53	0	24	492
Next Step	53	294	192	0	0	321	535	71	0	1465
Total	469	294	192	0	0	321	588	71	24	1957



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	54016001-Cut	54.4	4124 - Red with White Oak	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	4124 - Red with White Oak	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription clear cut leave 10-20 ba of mixed oak and any pine
Specs: leave nw portion across 612 for retention

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Acceptable regen is any mix of aspen, oak and pine.
Regen:

Other -accidentally terminated approved treatment
Comment: -re-added approved treatment that was given a new purchaser/contract

Proposed Start Date: 10/1 /2010

22	54016022- Monitor	52.5	4123 - Red Oak	Sawtimber Poor	94	1-50	Monitoring	Natural Regen (Re-Inventory)	4123 - Red Oak	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription -survey regeneration per Work Instructions before YOE 2021 timber sale prep work
Specs:

Next Step SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr); Harvest, Clearcut with Retention

Acceptable -any mix of aspen, oak and pine of medium to high stocking
Regen:

Suggested Management Follow-up (pending natural regeneration fails):

-in significant areas (>10 acres) with less than 30% composition of oak plant to red pine

-establish fully stocked red pine with minor deciduous associates

-consider including stands 22, 35, 56, 59, and 68 in the planting FTP

-a planted red pine cover type is also acceptable

Other -east half was cut in Fall 2014

Comment: -west half was cut in Fall 2017

Proposed Start Date: 10/1 /2019

28	54016028-Cut	71.5	4111 - S.Maple, Hard Mast Association	Sawtimber Well	98	111- 140	Harvest	Crown Thinning	4111 - S.Maple, Hard Mast Association	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription -cut all ash and beech, except leave 2-3 beech every acre

Specs: -crop tree release remaining trees to 80 BA residual
 -no tree-length skidding with crowns attached
 -access stand from the southeast and/or northwest
 -do not include the large seep area in the treatment surrounding the small cedar stand (see site conditions layer)

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
34	54016034-NF	13.9	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

35	54016035-Cut	43.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription -clearcut

Specs:

- leave 3-10% in scattered retention pocket(s) of more desirable northern hardwood species (not or minimally including ironwood, beech, or ash) along the perimeter of the stand along the trail
- include some of stand 35 within the treatment to improve access and provide landing space
- require low stumps and chip tops
- protect Hunt Creek Motorcycle Trail in timber sale specifications
- consult with recreation specialist and move trail

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release;

Treatments: Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; Other, Other

Acceptable -establish medium to fully stocked red pine with deciduous associates

Regen:

-consider including stands 22, 35, 56, 59, and 68 in the planting FTP

Other -MNFI concern within stand

Comment: -consult approved guidance before sale preparation work begins and adjust accordingly

Proposed Start Date: 10/1 /2020

44	54016044-Cut	17.0	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription -clearcut (partial stand harvest)

Specs:

- leave red pine and/or white pine not to exceed a cumulative residual BA of 10 to aid in visual along Hunt Creek Rd and provide pine regeneration (should not need to mark, only a trace amount present)
- leave 3-10% in area retention (already excluded to protect narrow cedar stand and aid in visual along Hunt Creek Rd)
- stay at least 100ft away from the Hunt Creek tributary with sale boundary line
- include grouse sale specification

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable -any combination of aspen, red maple, fir, pine, and oak of medium to high stocking

Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
47	54016047-NF	4.6	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

56	54016056-Cut	31.0	4123 - Red Oak	Sawtimber Medium	97	1-50	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4122 - Oak, Pine	Two-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription -opportunisticly treat

Specs:

- mark-to-cut all trees along hilltops and valleys where planting is feasible (flat or rolling), except leave 1-2 oak every 2 acres of good form in these planting areas
- notify TMS when sale preparation work begins and discuss treatment specifics on-site
- area retention already excluded within adjacent parent stand 55 that was selection harvest in 2015 (see site conditions layer)
- require low stumps and chip tops
- allow flexibility in field boundary treatment acreage (no variance for significant spatial adjustments)

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Other - Specify; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; Planting, Initial Plant

Acceptable -medium to fully stocked planted red and white pine with minor deciduous associates

Regen:

-consider including stands 22, 35, 56, 59, and 68 in the planting FTP

Other -shelterwood harvest completed in fall 2015

Comment:

Proposed Start Date: 10/1 /2020

59	54016059-Cut	27.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription -clearcut

Specs:

- leave 3-10% in scattered retention pockets of oak and/or other desirable northern hardwood (not or minimally including ironwood, beech, cherry or ash)
- require low stumps and chip tops
- include some of stand 57 within the treatment to improve access and provide landing space

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr); Other, Other

Acceptable -establish medium to fully stocked red pine with deciduous associates

Regen:

-consider including stands 22, 35, 56, 59, and 68 in the planting FTP

Other
Comment:

Proposed Start Date: 10/1 /2020



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
61	54016061-Cut	72.3	4139 - Aspen, Mixed Deciduous	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs: -3-10% area retention already excluded (see site conditions layer)
 -do not cross Hunt Creek Motorcycle Trail, keep harvest on one side of trail, already excluded (see site conditions layer)
 -include grouse sale specification

Next Step Monitoring, Natural Regen (Re-Inventary)Treatments:Acceptable -any combination of aspen, maple, fir, pine, and oak of medium to high stockingRegen:OtherComment:Proposed Start Date: 10/1 /2020

65	54016065-Cut	22.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	98	111-140	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**Prescription -cut all ash and beech, except leave 2-3 beech every 1 acre

Specs: -crop tree release remaining trees to 80 BA residual
 -no tree-length skidding with crowns attached

Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/1 /2020

68	54016068-Cut	6.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	85	81-110	Harvest	Shelterwood with Retention	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**Prescription -shelterwood harvest to 30-50 residual BA

Specs: -represent all species in leave trees
 -concentrate on leaving more oak vs other tree species
 -require low stumps and chip tops
 -do not allow harvesting within 100ft from vernal pond edge, increase accordingly to BMPs for slope
 -consult with recreation specialist and move trail to stand boundary

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Underplant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release;Treatments: Monitoring, Artificial Regen(3yr); SitePrep, Roller ChoppingAcceptable -medium to fully stocked white pine with deciduous associates

Regen:
 -consider including stands 22, 35, 56, 59, and 68 in the planting FTP

OtherComment:Proposed Start Date: 4 /26/2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
71	54016071-NF	5.1	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal

Habitat Cut: No

Site Condition:

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

80	54016080-Cut	48.4	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No

Site Condition:

Prescription -clearcut
Specs: -leave red pine and/or white pine not to exceed a cumulative residual BA of 10 (should not need to mark, only a trace amount present)
-leave 3-10% in area retention (some already excluded)
-include grouse sale specification

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable -any combination of aspen, red maple, fir, pine, and oak of medium to high stocking
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

81	54016081-Cut	21.7	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No

Site Condition:

Prescription -clearcut
Specs: -leave red pine and/or white pine not to exceed a cumulative residual BA of 10 (should not need to mark, only a trace amount present)
-leave 3-10% in area retention and 300 foot no-cut protection area along Hunt Creek (already excluded)
-include grouse sale specification

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable -any combination of aspen, red maple, fir, pine, and oak of medium to high stocking
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

Total Treatment Acreage Proposed: 492.3

Report 4 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment: 16
Year of Entry: 2021

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	<i>With Condition</i>	Not Available

Dominant Site Conditions

5C 2G 3J 5A 5E

856	685	146	25	Aspen	146	1	4		21
35	0	0	35	Cedar		29	6	0	
50	50	0	0	Herbaceous Openland					
3	3	0	0	Low-Density Trees					
9	0	0	9	Lowland Aspen/Balsam Poplar			9		
4	0	0	4	Lowland Conifers		4			
285	94	174	17	Mixed Upland Deciduous	174		11		6
443	434	0	9	Northern Hardwood			9		
185	139	41	4	Oak	41				4
4	0	0	4	Tamarack		4			
1	1	0	0	Treed Bog					
15	0	7	9	Upland Conifers	7		9		0
25	25	0	0	Urban					0
1,915	1,431	367	116	Total Forested Acres	367	37	48	0	31
	75%	19%	6%	Relative Percent					

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Sale No. 54-032-11-01							
2	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 61							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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4	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 44							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	109	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Sale No. 54-032-11-01							
16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Sale No. 54-032-11-01							
17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Sale No. 54-032-11-01							

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18	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 19 and stand 31							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 81							
20	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 80							
21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 7							
22	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 22							
23	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 56							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	99	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 1							

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31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 73							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -vernal pond protection area							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	5A: Not able to obtain desirable regeneration	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							

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Year of Entry: 2021

37	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -300 ft protection area for Hunt Creek trout stream							

Report 4 – Site Conditions

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Compartment: 16
Year of Entry: 2021

43	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Seep	Spring Wetlands Riparian Area	Spring Seep	Error	16
Comments extreme seasonal wetness with a series of seasonal drainages				
vernal pool	Spring Wetlands Riparian Area	Vernal Pool	Error	1
Comments				

**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
1	4124 - Red with White Oak	Sawtimber Well	57.1	95	81-110	N/A	-scattered white pine regen -PARVha-PARVbb																																																
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4	6112 - Lowland Aspen	Poletimber Medium	9.1	65	1-50	N/A	-converting to black ash-hunt creek trout stream, 300ft buffer																																																
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7	4130 - Aspen	Sapling Well	31.1	3	Immature	N/A	-past treatment- clearcut -completion date- 10/14 -sale number- 54-059-11-01 -leave trees- green painted trees and no rp or wp under 4 inches dbh																													
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11	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	15.4	108	111-140	N/A	-hemlock and legacy wp west of road, slight sope west of rd-east of road, this stand is protecting a drainageway -this stand likely contains a spring-transitional hydrology with upland cedar in places throughout, most of stand appears to be upland with scattered cedar in wet areas- more cedar east of rd, more mixed conifer west of rd																													
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12	4130 - Aspen	Poletimber Well	41.5	26	51-80	N/A	-past treatment- clearcut -completion date- 4/13/92-sale number- 54-054-90-01-leave trees- none-volume (cde)- 1130 aspen, 2045 mhw, 475 ro (in part, total for stands 53, 57, 75)																													
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13	6120 - Lowland Cedar	Poletimber Well	12.0	108	81-110	N/A	-stream flowig to nw through stand, spring fed -tamarack and spruce/fir appear to have been largely cut																													
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14	310 - Herbaceous Openland	Nonstocked	1.0			No																														
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16	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	21.8	98	51-80	N/A	New stand added. -suggest re-evaluating BA with supplement for all ash and beech to be cut -past treatment- Selection, cut all ash and beech and orange painted trees -completion date- 3/25/14 -sale number- 54-005-11-01 -leave trees- all unmarked trees, 70 BA (rough guess off proposal) -volume (cds)- sm- 6.6, bsw- 124, ash- 37, bch- 11, ro- 102, aspen- 1, ironwood- 0 (33 BA cut off T-Sale statistics) -did not do QD due to recent treatment -some beech left se of 2track -high ironwood and beech regen -n 1/2 mostly oak with nhwd in s 1/2																																												
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17	6224 - Treed Bog	Nonstocked	1.3	0		No																																													
18	122 - Road/Parking Lot	Nonstocked	7.4			No																																													
19	4130 - Aspen	Sapling Medium	9.0	4	Immature	N/A	-past treatment- clearcut -completion date- 11/14 -sale number- 54-059-11-01 -leave trees-green painted trees (1-3 oak and pine/acre) and all wp, hemlock, and cedar																																												
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22	4123 - Red Oak	Sawtimber Poor	52.9	94	1-50	N/A	-suggest re-evaluating BA with supplement for all ash and beech to be cut -past treatment- shelterwood, cut all ash and beech and except green painted trees -completion date- west 1/2 12/17/17 & east 1/2 12/9/15 (1/3rd cutting seen in 2014 4b imagery) -sale number- 54-005-11-01 -leave trees- all marked trees, 10-20 BA (rough guess off proposal and stand observation) -volume (cds)- sm- 220, bsw- 195, ash- 58, rm- 18, bch- 181, ro- 682, aspen- 183, ironwood- 3 (92 BA cut off T-Sale statistics) -VVb-AFO site -east half primarily ironwood and beech regen -west half yet to regenerate to yr 2																																												
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23	4199 - Other Mixed Upland Deciduous	Sawtimber Well	34.8	98	81-110	N/A	-suggest re-evaluating BA with supplement for all ash and beech to be cut -past treatment- Thin, cut all ash and beech and orange painted trees -completion date- 4/19/13 -sale number- 54-005-11-01 -leave trees- all unmarked trees, 70 BA (rough guess off proposal) -volume (cds)- sm- 25, bsw- 66, ash- 52, bch- 25, ro- 137, aspen- 108, ironwood- 0 (17 BA cut off T-Sale statistics) -did not do QD due to recent treatment -heavy to red oak in nw portion of stand -medium-low nhwd site; medium-high red oak site																																												
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25	4130 - Aspen	Sapling Well	2.1	24	1-50	N/A	New stand added. young stand surrounded by log stand.																																												
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28	4111 - S.Maple, Hard Mast Association	Sawtimber Well	81.6	98	111-140	N/A	-stand 25 (a small portion of stand 28) was clearcut within this sale and is now aspen -past treatment- thinning, cut orange trees and all aspen -acres- 93 -completion date- 12/12/94 -sale number- 54-035-91-01 -cut volume (cds)- 200 ro, 223 aspen, 526 nhwd -put in 25 dq points -average BA is 108 -17 BA of beech currently in stand -most of beech, red oak, and ash are located within the N-S leg of this stand																																												
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31	4130 - Aspen	Poletimber Well	79.2	38	51-80	N/A	-past treatment- clearcut, cut all aspen, oak, mixed hwd and rp-completion- 7/15/83-sale number- 54-066-81-01-leave trees- green painted trees-volume (cbs)- 314 mixed aspen, 187 oak, 306 mhwd, 20 rp-some larger oak and nhwd left in north half																																																																								
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35	4111 - S.Maple, Hard Mast Association	Sawtimber Well	42.3	85	81-110	N/A	-past treatment- thinning, cut orange trees -completion date- 9/30/06 -sale number- 54-054-90-01 -put in 14 QD points -current BA is 89 -residual BA of beech is 24																																																																								
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36	6121 - Tamarack	Sawtimber Well	3.7	104	81-110	N/A																																																																									
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37	4139 - Aspen, Mixed Deciduous	Sapling Well	22.9	13	1-50	N/A	-stand is was cut to a low seed-tree (10-15 residual BA)) in 2006 -drainage in NW corner, scattered overstory is 87 years old -past treatment- thinning?, cut orange trees? -completion date- 11/01/06 -sale number- 54-054-90-01																																																		
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38	4199 - Other Mixed Upland Deciduous	Poletimber Well	53.5	49	51-80	N/A	-did qd with 21 points -68 residual BA																																																		
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40	310 - Herbaceous Openland	Nonstocked	1.1			No																																																			
41	4130 - Aspen	Poletimber Well	25.1	34	51-80	N/A	-past treatment- clearcut, cut all aspen, oak, mixed hwd -completion- 10/31/83 -sale number- 54-061-81-01 -leave trees- undesigntated trees -volume (cgs)- 750 mixed aspen, 120 oak, 116 mhwd																																																		
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42	6120 - Lowland Cedar	Sawtimber Well	12.0	108	81-110	N/A	-more aspen and blowdown in south half-heavy balsam fir sub in north half-tamarack to ne corner, near stream																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
43	4199 - Other Mixed Upland Deciduous	Sawtimber Well	106.5	101	81-110	N/A	-past treatment- thinning, cut orange trees -completion date- 6/20/07 -acres- 110 -sale number- 54-035-91-01 -volume (cds)- 188 sm, 150 bsw, 350 ro, 190 aspen, 170 mhwd -put in 27 qd points -BA is 84 overall -severe subcanopy competition issues from past thinning																																													
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44	4130 - Aspen	Poletimber Well	58.0	49	81-110	N/A	Few pockets of low ground with cedar.																																													
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45	4130 - Aspen	Sapling Well	28.9	14	1-50	N/A	-past treatment- clearcut -acres- 32 -completion date- 3/14/05 -sale number- 54-014-03-01 -leave trees- green painted trees -volume (cds)- 500 aspen -past treatment- removal cut, all aspen and mixed hwd over 7 inches? -completion date- 11-30-82 -sale number- 54-026-82-01 -leave trees- undesignated trees -volume (cds)- 26 aspen?, 33 mhwd?																																													
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46	4131 - Aspen, Oak	Poletimber Well	11.6	36	51-80	N/A	-past treatment- clearcut -completion date- 1-5-82 -sale number- 54-025-81-01 -leave trees- undesignated trees -volume (cds)- 66 mhwd, 11 aspen																																													
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47	310 - Herbaceous Openland	Nonstocked	4.6			Managed Opening																																														
48	310 - Herbaceous Openland	Nonstocked	1.2			No																																														



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49	4110 - Sugar Maple Association	Sawtimber Medium	52.7	98	81-110	N/A	-suggest re-evaluating BA with supplement for all ash and beech to be cut -past treatment- Selection, cut all ash and beech and orange painted trees -completion date- 9/30/16 -sale number- 54-005-11-01 -leave trees- all unmarked trees, 70 BA (rough guess off proposal) -volume (cds)- sm- 75 bsw- 190, ash- 42, bch- 64, ro- 65, aspen- 232, ironwood- 6 (17 BA cut off T-Sale statistics)																																															
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-small log nhwd, dont see many large gsps per rx																																																						
50	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	28.7	85	51-80	N/A	-suggest re-evaluating BA with supplement for all ash and beech to be cut -past treatment- Selection, cut all ash and beech and orange painted trees -completion date- 1/28/17 -sale number- 54-005-11-01 -leave trees- all unmarked trees, 70 BA (rough guess off proposal) -volume (cds)- sm- 111, bsw- 97, ash- 123, bch- 26, ro- 32, aspen- 221, ironwood- 12 (22 BA cut off T-Sale statistics)																																															
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53	4130 - Aspen	Poletimber Well	62.5	26	1-50	N/A	-past treatment- clearcut -completion date- 7-25-91 -sale number- 54-054-90-01 -leave trees- none -volume (cds)- 1130 aspen, 2045 mhwd, 475 ro (in part, total for stands 53, 57, 75)																																															
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54	6120 - Lowland Cedar	Sawtimber Well	8.6	104	111-140	N/A	-intermittent stream going through stand to nw crossing rd																																															
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55	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.3	97	51-80	N/A	-past treatment- selection, cut all ash and beech and orange painted trees -completion date- 10/30/15 -sale number- 54-005-11-01 -leave trees- all unmarked trees, 70 BA (rough guess off proposal) -volume (cds)- sm- 10, bsw- 20, ash- 40, bch- 12, ro- 10, aspen- 102, ironwood- 1 (8 BA cut off T-Sale statistics) -50-80 ba -did not do QD due to recent treatment																																																
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56	4123 - Red Oak	Sawtimber Medium	31.0	97	1-50	N/A	-past treatment- shelterwood, cut all ash and beech trees -completion date- 10/9/15 -sale number- 54-005-11-01 -leave trees- all green trees, 40 BA (rough guess off proposal) -volume (cds)- sm- 117, bsw- 148, ash- 49, bch- 69, ro- 340, aspen- 93, ironwood- 0 (91 BA cut off T-Sale statistics) -heavy browse on rm, ash, ironwood, beech, and oak -VVb site -BA looks to be around 40-60, fairly open subcanopy with minimal slash/tops -put in 12 regen survey points (see compartment file)- 625 saplings per acre- 27% ash, 9% beech, 3% oak, 16% aspen, 4% cherry, 41% ironwood. Average height for all is close to 3 feet with aspen higher at 4ft.																																																
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57	4130 - Aspen	Poletimber Well	73.7	26	1-50	N/A	-past treatment- clearcut -completion date- 12/18/91 -sale number- 54-054-90-01 -leave trees- none -volume (cds)- 1130 aspen, 2045 mhwd, 475 ro (in part, total for stands 53, 57, 75)																																																
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58	4119 - Mixed Northern Hardwoods	Poletimber Well	19.0	49	51-80	N/A	-dead ash in west half releasing other nhwd -heavy to red oak east of rd -did 7 QD points -BA is currently at 71																																																
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59	4199 - Other Mixed Upland Deciduous	Sawtimber Well	27.1	85	81-110	N/A	-past treatment- thinning, cut orange trees-completion date- 11/01/06- sale number- 54-054-90-01-VVb-AFO site-did 8 qd points-current BA is 95-currently 9 BA of beech-extremely high amount of beech and ironwood in subcanopy-extreme browse on white ash-large diameter oak sawlog trees																																																
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60	4111 - S.Maple, Hard Mast Association	Sawtimber Well	62.1	85	81-110	N/A	Thinned 2007 -past treatment- thinning, cut orange trees -completion date- 2/27/07 -sale number- 54-054-90-01 -loaded in subcanopy with ironwood, beech, and ash in order of dominance -did QD in stand with 17 points, BA is 98 overall																																														
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61	4139 - Aspen, Mixed Deciduous	Poletimber Well	78.1	49	81-110	N/A	-merge in stand 55																																														
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62	122 - Road/Parking Lot	Nonstocked	2.7			No	-gas processing facility																																														
63	4110 - Sugar Maple Association	Sawtimber Medium	43.5	90	51-80	N/A	-suggest re-evaluating BA with supplement for all ash and beech to be cut -past treatment- Selection, cut all ash and beech and orange painted trees -completion date- 1/4/17 -sale number- 54-005-11-01 -leave trees- all unmarked trees, 70 BA (rough guess off proposal) -volume (cds)- sm- 54, bsw- 202, ash- 23, bch- 60, ro- 34, aspen- 100, ironwood- 5 (11 BA cut off T-Sale statistics)																																														
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65	4119 - Mixed Northern Hardwoods	Sawtimber Well	22.8	98	111-140	N/A	-large diameter/mast oak with scattered pole sugar maple -did 8 QD points -BA is currently 108 -BA of beech is currently 25																																														
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66	310 - Herbaceous Openland	Nonstocked	1.4			Managed Opening																																															



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67	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.6	49	1-50	N/A	New stand added. small stand around wildlife opening.																																												
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68	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.1	85	81-110	N/A	-past treatment- thinning, cut orange trees -completion date- 9/30/06 -sale number- 54-054-90-01 -QD information includes stand 75 -mature large oak mast tree presence with good spacing and vigor -VVb-AFO site																																												
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69	310 - Herbaceous Openland	Nonstocked	1.8			No																																													
70	122 - Road/Parking Lot	Nonstocked	12.1		Unspecified	No																																													
71	310 - Herbaceous Openland	Nonstocked	5.1			Managed Opening																																													
72	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.8	36	51-80	N/A	-cut record for 12-14-81																																												
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73	4130 - Aspen	Sapling Well	28.1	7	Immature	N/A	-past treatment- clearcut-completion date- 7/26/13-sale number- 54-028-11-01-leave trees- scattered oak and all wp-volume (cde)- aspen dominated																																												
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74	4111 - S.Maple, Hard Mast Association	Sawtimber Well	23.8	90	81-110	N/A	-thinned in 90s -did not do QD																																												
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75	4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.0	85	111-140	N/A	-no evidence of past thinning, understory is fairly open -QD was done and is part of stand 68 data -VVb-AFO site -over 110 residual BA -motorcycle trail goes through the stand																																									
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76	4111 - S.Maple, Hard Mast Association	Sawtimber Well	19.1	85	81-110	N/A	-past treatment- thinning, cut orange trees -completion date- 11/01/06 -sale number- 54-054-90-01 -did 4 qd points -extremely high amount of beech and ironwood in subcanopy -high amount of sugar maple, basswood, and beech of smaller diameter vs adjacent stand to the south																																									
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77	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	47.6	98	51-80	N/A	-suggest re-evaluating BA with supplement for all ash and beech to be cut -past treatment- Selection, cut all ash and beech and orange painted trees -completion date- 1/4/17 -sale number- 54-005-11-01 -leave trees- all unmarked trees, 70 BA (rough guess off proposal) -volume (cds)- sm- 44, bsw- 120, ash- 95, bch- 13, ro- 66, aspen- 243, ironwood- 0 (13 BA cut off T-Sale statistics) -did not do QD due to recent treatment																																									
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79	4130 - Aspen	Sapling Well	69.6	5	Immature	N/A	-past treatment- clearcut -completion date- 2/18/14 -sale number- 54-032-11-01 -leave trees- green painted trees and all wp and rp -volume (cds)- aspen dominated																																									
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82	6123 - Lowland Fir	Sapling Well	4.1	38	1-50	N/A	-likely formed from hydrology disturbance																																																														
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83	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.2	88	81-110	N/A	-mixed species -transitional hydrology -a portion of this stand was left as retention for stand 19																																																														
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